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The Structure of Liquid Metals, by V. P. Tsvetkov.
RUSSIAN, per, Izv. VUZ Fizika, No 1, 1960, pp 145-154.
FRI-Trans-184

Sci-Materials
Oct 66 313,205

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Examination of Pulse Discharge at [redacted] Low Pressure by Probing Method, by B. N. Gulko, 10 pp.

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FTD-TT-62-1202

Sci -Phys
Jan 63

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Determination of the Error in Calculating Thermodynamic Functions in a Harmonic Oscillator Approximation, by V. N Khlebnikova, N. K. Morozova, V. P. Morozov, 6 pp.

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MDF K-233
9092841
143 3 9

OTS 62-11462

Sci

Nov 61

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Influence of Copper and Cobalt Admixtures of the Characteristics of Nickel Chromium Ferrites, by A. S. Khlystov, G. A. Petrakovskiy, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 1, 1960, pp 222-227.

MDF K-234

Vol V, No 5
Jul 61

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Coherent Scattering in a Plasma, by V. N. Kassenikh, 4 pp.

RUSSIAN, per, Iz Vyasshikh Uchab Zaved Fiz, No 1, 1960, pp 234, 235.

ARSI H-9280
ID 2166472

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18 (NY-4254)

Conference on Electron Accelerations, by V. N. Timov, 11 pp.

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MDF - K-212
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Nov 60

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Relationship Between Electrical, Chemical, and Luminescence Properties of Zinc Oxide, by I. K. Vereshchagin, 10 pp.

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CIA/FDD XX-1174
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On Fluctuations in the Electron Concentration in Solid Solutions, by I. Ya. Deliktyar, M. I. Deliktyar, 8 pp.

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HDF D-144
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Pekar, Yu. A.
THERMAL CONDUCTIVITY OF A COMPLETELY IONIZED PLASMA. tr. by B. W. Kuvshinoff.
24 Feb 61, 5p. 4 refs. APL/JHU TG 230-T174.
Order from OTS $0.50 61-21995

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy. Fizika (USSR) 1960, no. 2, p. 90-102.
Another translation is available from OTS or SLA $1.10 as 61-15939; AFCRL-20; MDF P-158, Jan 61 [7]p.
Also available from MDF $3.00 as MDF P-158.

DESCRIPTORS: *Plasma physics, *Heat transfer, Hydrogen, Deuterium, Ionization.

The electron and ion temperature distributions in a fully ionized plasma, bounded by parallel-walled heat ducts, are given under the condition that density is constant over the cross section of flow in two similar cases of strong and weak nonisothermicity. (Author)
(Physics--Thermodynamics, TT, v. 6, no. 2)

61-21995

I. Pekar, Yu. A.
II. APL/JHU TG-230-T174
III. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
IV. Contract NOrd-7386

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Magnetic Characteristics of Lithium-Aluminum Ferrites, by A. S. Khlystov, S. M. Zhiliakov, 4 pp.

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MDF K-231
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Magnesium-Chromium-Copper Ferrites for the Low Portion of the Microwave Band, by A. S. Khlystov, E. M. Smokotin, 5 pp.

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OTS 62-11423

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Approximate Analytical Methods in the Theory of Radiative Heat Transfer in an Absorbing Medium, by Yu. A. Surinov. 11 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Fizika, No 3, 1960, pp 19-26. 9700750
FTD-TT-65-1467

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Jun 66 303,768

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17 Nov 61

Influence of Electron Magnetic Resonance on the Optical Properties of Ferromagnetic and Paramagnetic Bodies, by P. S. Zyryanov, T. G. Izyumova, G. V. Skrotskiy, 9 pp.

RUSSIAN, per, Iz Vysshikh Uchob Zaved, Fiz, No 3, 1960, pp 32-38.

MDF Z-131
909344

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Mazurin, O. V. and Lev, E. Ya.
THE INFLUENCE OF THE ADDITIONS OF ALKALI METAL OXIDES UPON THE ELECTRIC CONDUCTIVITY OF ALKALI-FREE GLASSES (Vliyanie Dobavok Okislov Shchelochnykh Metallov na Elektroprovodnost' Bessshchelochnykh Stekol). [1963] [28p] (foreign text included) 17refs
Order from OTS, SLA, or ETC $2.60 TT-64-10580

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Fizika (USSR) 1960, no. 3, p. 43-51. (Abstract available)

DESCRIPTORS: *Glass, *Electrical conductance, *Alkali metal compounds, *Oxides, Resistance (Electrical), Calcium compounds, Barium compounds, Lead compounds, Heat of activation.

The introduction into alkali-free glasses, which contain the oxides of bivalent metals (CaO, BaO, PbO) (Materials--Ceramics, TT, v. 11, no. 9) (over)

TT-64-10580

I. Mazurin, O. V.
II. Lev, E. Ya.

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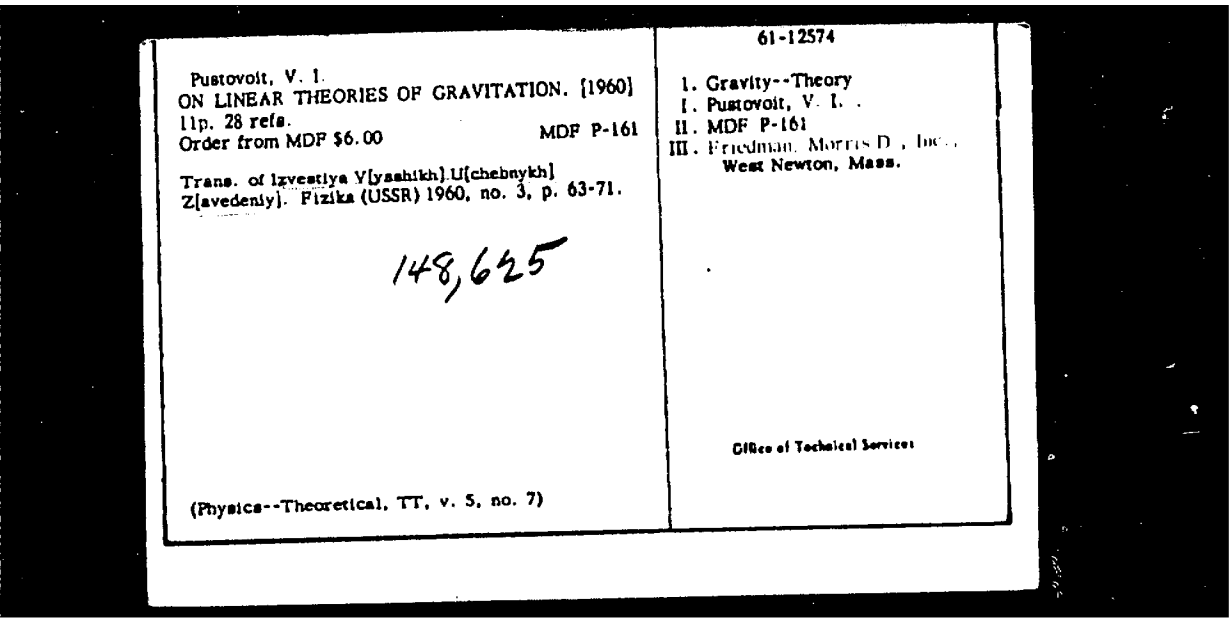

Pustovoit, V. I.
ON LINEAR THEORIES OF GRAVITATION. [1960]
11p. 28 refs.
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148,625

(Physics--Theoretical, TT, v. 5, no. 7)

61-12574

1. Gravity--Theory
I. Pustovoit, V. I.
II. MDF P-161
III. Friedman, Morris D., Inc.,
West Newton, Mass.

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Approximation Method of Calculating the Effect of Diffusion Upon the Heat Conduction of Gases in a Boundary Layer, by R. Z. Alimov, 11 pp.

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ACSI H-9584
ID 2170492

Sci - Electronics
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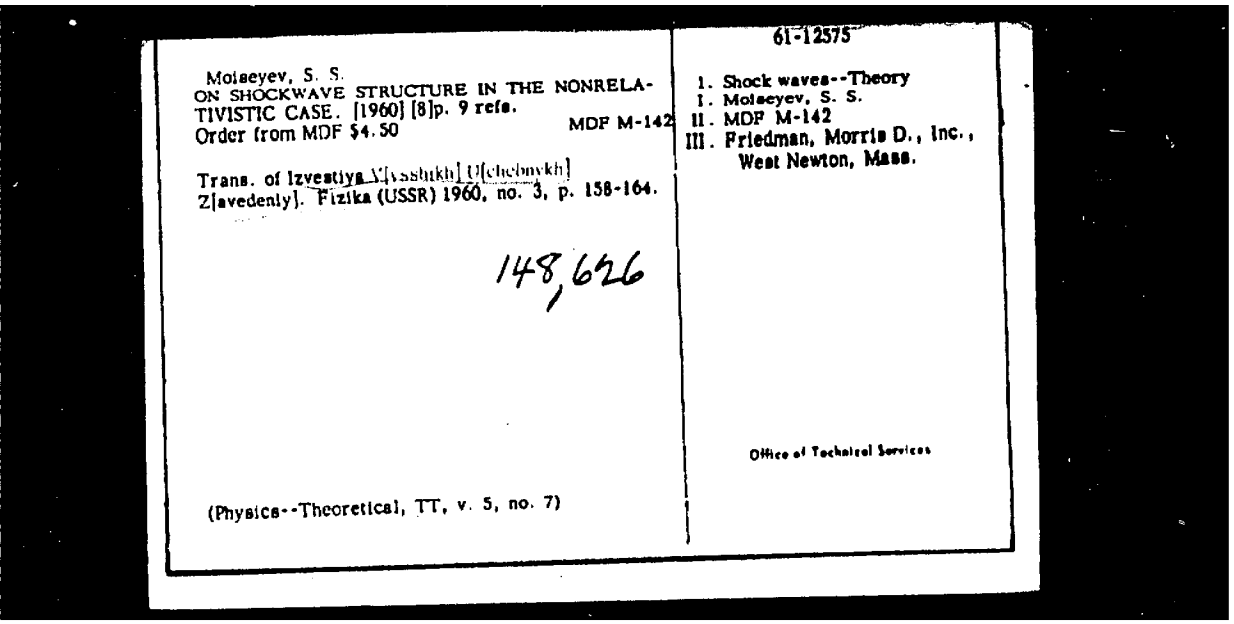

61-12575

Moiseyev, S. S.
ON SHOCKWAVE STRUCTURE IN THE NONRELATIVISTIC CASE. [1960] [8]p. 9 refs.
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Trans. of Izvestiya V[ysshikh] U[chebnykh] Z[avedeniy]. Fizika (USSR) 1960, no. 3, p. 158-164.

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(Physics--Theoretical, TT, v. 5, no. 7)

1. Shock waves--Theory
I. Moiseyev, S. S.
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Crystal Lattice State and Dislocation Density in Austenite and Ferrite During Phase Transformations, by L. I. Mirkin, Ya. S. Umanskiy, 7 pp.
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JPRS 23509

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Mar 64

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Magnetic Resonance Line Width in Dilute Paramagnetic Single Crystals With Anisotropic g-Factor, by N. G. Kiloskova, U. Kh. Kopvillem, 8 pp.

RUSSIAN, per, Izvestiya Vysshikh Ucheb Zaved, Fiz, No 3, 1960, pp 223-229.

MDF K-237
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OTS- 62-11457

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The Ionization Potential of Atoms and the Mutural Solubility of Metals, by A. A. Vorob'yev, P. A. Savintsev, et al, 3 pp.

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AEC-Tr-5177

Sci - Phys, Min/Met
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Cheglokov, Ye. I.
STRUCTURE OF THE VALENCE BAND OF BISMUTH TYPE CRYSTALS. [1961] 11p. 9 refs.
Order from MDF $6.50 MDF C-125

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy. Fizika (USSR) 1960, no. 4, p. 13-21.

(Physics--Solid State, TT, v. 5, no. 10)

61-12954

1. Crystal structure--Mathematical analysis
2. Bismuth--Crystal structure
3. Crystals--Atomic struct
I. Cheglokov, Ye. I
II. MDF C-126
III. Friedman, Morris D., Jr. West Newton, Mass.

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Singular Solutions of the Spinor Equation and Electron Theory, by L. E. Lebedev, 9 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Fiz, No 4, 1960, pp 22-29.

MDF L-137
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Sci
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On the Question of the Doppler Effect in the Theory of Vavilov-Cherenkov Luminescence, by V. A. Korshunov, G. V. Skrotskiy, 5 pp.

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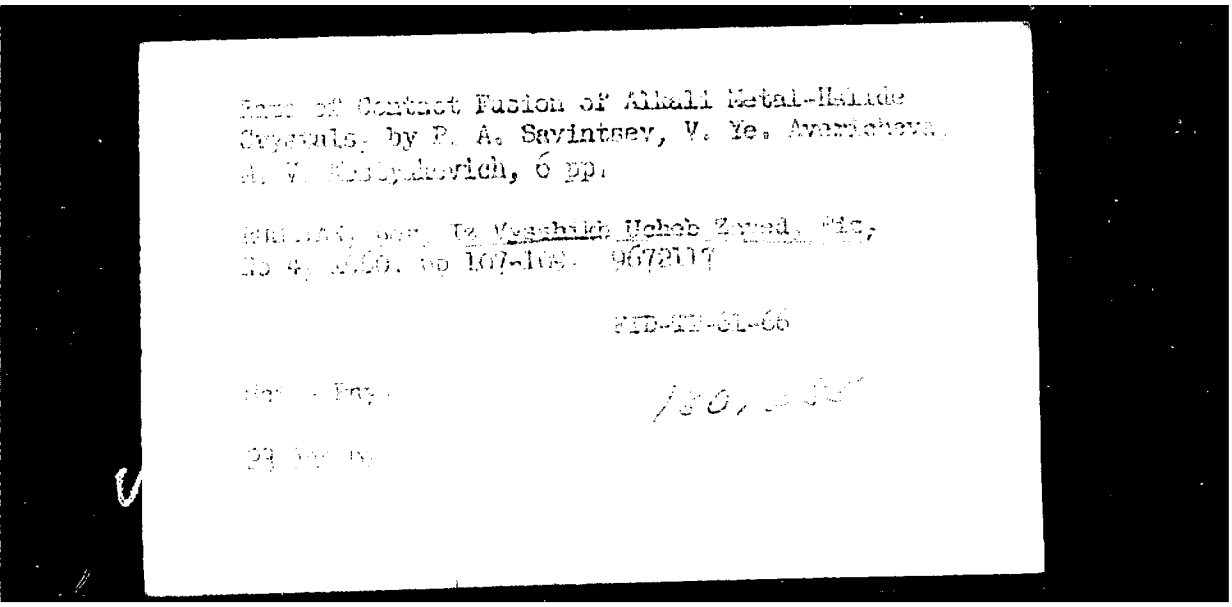

Some of Contact Fusion of Alkali Metal-Halide Crystals, by P. A. Savintsev, V. Ye. Averbakhova, A. V. Kolyadovich, 6 pp.

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Influence of Anisotropic Elastic Stresses on Ferromagnetic Resonance in Polycrystalline Ferrites, by Yu. N. Kotyukov, A. H. Burnysheva, 6 pp.

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Dependence of the Line Intensity in an Arc Discharge Spectrum on the Current Strength, by Ya. D. Raikhbaum, V. D. Malykh, 7 pp.

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Determination of the Parameters of Particle-Size Distribution, by V. V. Lebedev, A. Ye. Makirov, 9 pp.

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FTD MCL-1259/1

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Kinetics of Photoconductivity of Layers of Amorphous Selenium Treated With Mercury XXXXX Vapors, by M. I. Korsunskiy, N. S. Pastushuk, G. D. Mokhov, 11 pp.

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OTS 63-16547

CIA FDD XX-1331
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Sci - Phys
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Measurement of the Ferromagnetic Resonance Absorption Linewidth in Polycrystalline Ferrites, by Yu. N. Kotyukov, E. M. Smokotin, 6 pp.

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MDF K-244

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On the Application of Continual Integrals Over Trajectories to the Theory of the Green's Functions of a System of Nonrelativistic Particles, by L. Ia. Kobelev, 13 pp.

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BISI 2828

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Electron and Hole Centers in Ionic Crystals and Lattice Energy, by A. A. Vorob'yev, I. Ya. Melik-Gaikazian, 2 pp.

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MDF V-152
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The Application of the Expansion Method to the Elastic Scatterling of Slow Electrons by Heavy Atoms, by V. D. Kamenetskiy, B. M. Yavorskiy, 20 pp.

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MDF S-177
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FTD MCL-1217/1

Sci - Phys

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The Electron and Ionic Emission of Metal-Film Cathodes in Cesium Vapor, by Mr N. D. Morgulis, Yu. P. Korchevoy, 10 pp.

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FTD MCL-1354/1

Sci - Phys

24 Oct 61

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Thin Films of Halide Compounds Used for Non-Linear Resistors, by M. M. Nekrasov, 7 pp.

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CIA/FDD XX-1311
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Sci - Phys

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The Effect of an External Magentic Field on Stationary Layers in the Plasma of an Electric Discharge, by F. D. Kochanov, O. V. Prodkovskaya. UNCL

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*ATIC MCL-1274/1

Sci - Phys
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5-7-44

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Growing Single-Crystal Foils of Prescribed Crystallographic Orientation, by F. P. Rybalko, B. F. Rybalko, 3 pp.

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MDF R-123
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Sci - Phys 176,104

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The Effect of Tri-Axial Pressure on the Atomic Magnetic Moments of Iron, Nickel and of the Alloy Fe + 36% Ni, by I. Ya. Dekhtyar, B. S. Mikhalenkov.

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BISI 2249

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Oct 61

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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An Investigation of High-Frequency Discharge in the Band From 1.5 to 15 MC III, by A. A. Kuzovnikov, N. A. Kaptsov, 13 pp.

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FTD-TT-61-94

Sci - Phys

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23 Jan 62

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Investigation of the Incubation Period of the Fatigue of Metals, by A. V. Gur'yev.
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GB/82/4657

Sci - Mat/Met
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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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The Calculation of Accelerated-Particle Loss Due to Scattering, by Gas, by A. G. Vlasov, 8 pp.

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FTD-TT-61-276

Sci - Phys

186,641

5 Feb 62

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

Dekhtyar, I. Ya. and Madatova, E. G.
INTERACTION BETWEEN THE MAGNETIC (DOMAIN) AND DISLOCATION STRUCTURE IN FERROMAGNETS. [1962] 11p. 5 refs.
Order from OTS or SLA $1.60 62-10615

Trans. of Izv[estiya] V[ysshikh] U[chebnykh] Z[avedenii]. Fizika (USSR) 1961, no. 1, p. 63-70.

DESCRIPTORS: Ferromagnetism, *Magnetic materials, Metals, Dislocations, Crystal structure, Annealing, Temperature, Theory, *Coercimeters.

In conformance with modern theories of coercive force and under the assumption that dislocation-type defects in the crystalline structure are formed during high-temperature quenching in a metal, there is analyzed their interaction with the domain structure. A computation of the dependence of the coercive force on the time of low-temperature annealing is in good agreement with experimental results. A computation
(Physics--Magnetism, TT, v. 8, no. 9) (over)

62-10615

I. Dekhtyar, I. Ya.
II. Madatova, E. G.

Office of Technical Services

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Varying the Excitation Interval in a Capillary Singing Flame, by V. N. Podymov, P. A. Norden, 8 pp.

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FTD-TT-61-391

Sci - Phys

4 May 62

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The Problem of the Mechanism of Electrical Erosion, by N. V. Afanas'ev, M. B. Rubevskiy, V. A. Franyuk, 9 pp.

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Cerenkov Radiation Emitted by Magnetic and Electric Dipoles, by A. B. Kukanov, 9 pp.

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Towards M an Estimate of Motion of Electrons in a Betatron With Increasing Toroidal Magnetic Field, by N. A. Volosnykh.

RUSSIAN, per, Iz Vysshikh Uchob A Zaved, Fiz, No 2, 1961, pp 46-51.

ERDL, Ft Belvoir T-1498

62-25336

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Towards Problem on the Effect of Atmosphere on Arc Discharge Radiation, by O. P. Semenova, M. V. Petrova.

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Sci - Phys
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Production and Dielectric Properties of Single Crystals of Solid Solutions of Pb (TiO_3-ZrO_3), Lead Metaniobate and Lead Titanate, by A. L. Khodakov, M. L. Sholokhovich, 11 pp.
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Sci - M/M
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Sci - Phys 176,108

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JPRS 20660

SCI - MATH & DATA PROC
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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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FTD-TT-62-1029

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Sci - Phys
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The Use of the Doppler Effect for Investigating Processes in a Gas- Discharge Plasma, by Ye. V. Zagoryanskaya, P. S. Kireyev, 8 pp.

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FTD-TT-62-323

Sci - Phys

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Brief Communications Thermal Conductivity Equation in a Region With Travelling Boundary, by
E. A. Ashshtein.
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AEC-SCL-Tr-65-276

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Diamagnetic Properties of Plasma Excited in Argon and Neon, by D. A. Pulin, V. G. Stepanov, 6 pp.

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FTD-TT-62-324

Sci - Phys

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3 May 62

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A CYCLOTRON WITH TRAJECTORY CONTROL BY MEANS OF A HIGH-FREQUENCY FIELD, BY A. A. VOROB'YEV, YE. S. KOVALENKO, 4 PP.

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11 OCT 62

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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The Magnetostriction of Nickel-Copper Alloys in Weak Fields, by I. V. Antonov.

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NLL Ref: 5828.4 1963 (5448) (loan)

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On the Calculation of the Ionising Intensity of the Electrical Field of a Laminated Dielectric Made of Impregnated Capacitor Paper, by D. S. Varshavskiy, 9 pp.

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FTD-TT-62-1263

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

Gol'denblatt, I. I.
THE "CLOCK PARADOX" IN THE THEORY OF RELATIVITY, tr. by B. W. Kuvshinoff. 17 Sep 62, 8p. 7 refs. APL/JHU TG 230-T333.
Order from OTS $0.50 63-11516

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Fizika (USSR) 1961, no. 6, p. 38-42.

DESCRIPTORS: *Relativity theory, Time, *Time-lag theory, Clocks.

The familiar "clock paradox" in the study of relativity is analyzed on the basis of a detailed study of the behavior of time in comparable coordinate systems. (Author)

NASA STAR N63-11516/APL 333

(Physics--Theoretical, TT, v. 9, no. 3)

63-11516

I. Title: Clock paradox
I. Gol'denblatt, I. I.
II. APL/JHU TG-230-T333
III. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
IV. Contract NOw-62-0604-c

Office of Technical Services

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On the Evaluation of the Influence of the Reabsorption Effect on the Intensity of Spectral Lines, by N. G. Preobrazhenskiy, 17 pp.

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FTD-TT-63-257

Sci-Electricity
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The Influence of the Width of Spectrometer Slits on the Spectral and Integral Absorption Which They are Measuring, by V. E. Zuyev, B. P. Koshelev, 7 pp.

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CIA/FDD XX-1463
No Foreign Dissem

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On the Nature of Dielectric Losses in Mica, by I. G. Vorozhtsova, 12 pp.

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FTD-TT-62-1474

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Sci-Phys
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Investigation of the Energy Spectra of Electrons Accelerated by the Electric Field of a Microtron Resonator, by B. Z. Kanter, 7 pp.

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FTD-TT-62-897

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Klydonograms of Interacting Electrodes, by V. I. Arabadzhi, K. I. Rudik, 6 pp.

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FTD-TT-62-1540

Sci-Phys
Mar 63

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Contribution to the Problem of the Effect of the Atmosphere on the Radiation of an Arc Discharge (2nd Installment), by C. P. Semenova, M. V. Petrova, 15 pp.

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FTD-TT-63-19

Sci-Phys
May 63

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Rodichev, G. M. and Kim, P. D.
A METHOD FOR THE STUDY OF THE BARKHAUSEN EFFECT. [1962] 5p. 4 refs.
Order from OTS or SLA $1.10 62-32242

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii, Fizika (USSR) 1962, no. 1, p. 130-135.

DESCRIPTORS: *Ferromagnetism, Ferromagnetic materials, *Magnetic moments, Thin films, Iron, Electric potential, Distribution, Pulse integrators, Coils.

This paper describes the experimental equipment for the study of the distribution of impulse voltage obtained from the Barkhausen jump as a function of duration as well as the distribution pattern of jumps as a function of the magnetic moment by integrating the impulses of the jumps. The influence of the parameters of the measuring
(Physics--Magnetism, TT, v. 9, no. 9)

62-32242

I. Title: Barkhausen effect
I. Rodichev, G. M.
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III. National Bureau of Standards, Washington, D. C.

Office of Technical Services

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R-10,101-8

Agency: Picatinny Arsenal
P.O. No. 94-69a

3 Feb. 1969

Title: Thermo of S. Solutions with ....[redacted] perovsk. structuve having ferroel. propo. pp. 118-124. 7pp

Author: Khodakov, A.L. and Granovskii, V. O.

Source: Isv. Vyashikh. Uchebn. Zavedenii. Fiz. 1962, No. 2.

Language: Russian

Special instruction: Please translate & type 1 cpy only.

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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On the Growth of Drops of Water During Condensation, by V. V. Ivanov.
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NLL RTS 2686 (On Loan or Purhcase)

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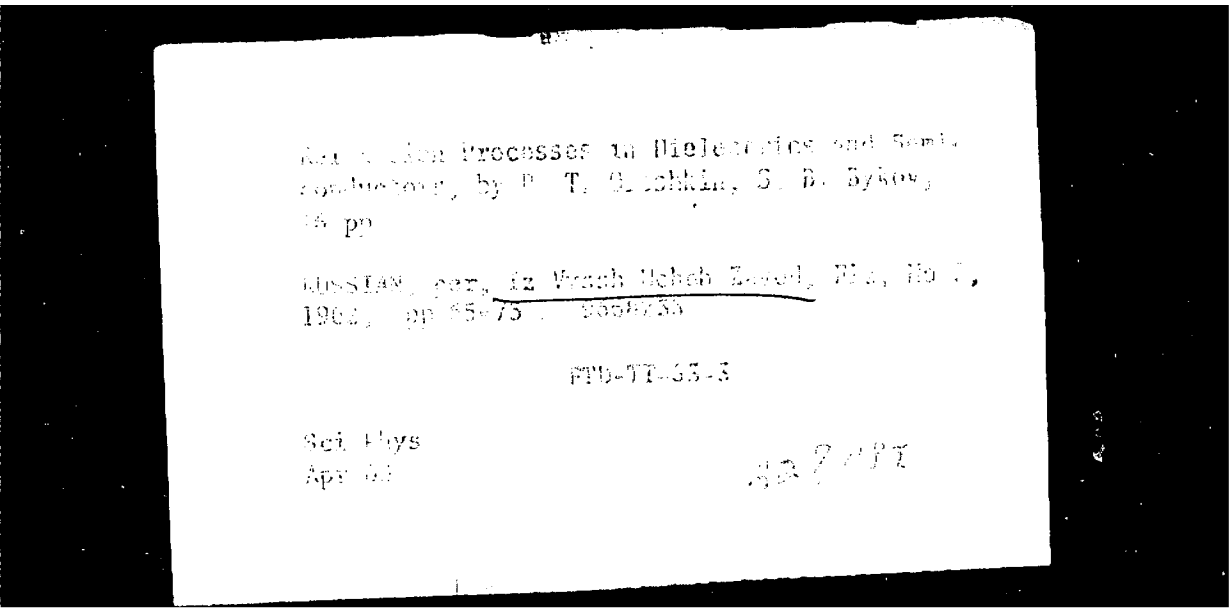

[illegible] Processes in Dielectrics and Semi-[illegible]
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Vapor Diffusion in Capillaries, by N. N. Fedyakin, 19 pp.

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AEC-SCL-Tr-467

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The Surface Energy of Certain Oxides, Sulfides and Selenides, by S. N. Zadumkin, V. Kh. Khubarkhanov, 5pp.

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Jan 64

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Study of Spectral Reflection Factors and the Sensitivity of Silicon Photoelements, by M. A. Kropotkin, B. P. Kozyrev.

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Dielectric Properties of Insulating Materials in Gamma-Irradiation, by B. I. Vorozhtsov, V. M. Nesterow, 15 pp.

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Variation of Dielectric Losses in Crystallizing Polymers Under the Action of Ionizing Radiation, by N. I. Ol'shanskaya.
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Dielectric Properties of Insulating [illegible]
Under Gamma-Irradiation. by S. I. Vorozhtsov,
V. N. Nesterov, N. I. Ol'shanskaya, 7 pp.

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FTD-TT-63-350

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Investigation of the Electrical Forming of Point-Contact Diodes, by A. P. Vyankin, A. A. Vilisov, 13 pp.

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Electrical Conductivity and Dielectric Losses in Polyvinyl Chloride Plasticized Resin, by V. M. Anikeyenko, K. M. Kevroleva, 9 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika, No 5, 1962, pp 75-80. JPRS 42628

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Determination of the Predominant Growth of Single Crystals and Single-Crystal Blocks, Obtained by the Zone Melting Method, and Exposure of Dislocations of Them, by A.P. Izergin.
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Aug 67 335-605

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

Variation of Dielectric Losses in Crystallizing Polymers Under the Action of Ionizing Radiation by N. I. Ol'shanskaya, B. I. Voroshtsov, 10 pp.

RUSSIAN, per, Iz Vyssh Uchebn Zaved, Fiz, No 5, 1962, pp 150-155. AS 9684611

FTD-TT-63-350

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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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Temperature Dependence of the Saturation Magnetostriction of Single Crystals of Ferrosilicon, by A. Ya. Vlasov, I. L. Gus'kova, 9 pp.

RUSSIAN, per, Iz Vyssh Uchab Zaved, Fiz, No 5, 1962 pp 156-160. 9604611

FTD-TT-63-350
OTS, USA TT-63-13139 (11/1)
" " TT-63-25264

Sci-Phys
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APPROVED FOR RELEASE: Monday, July 28, 2003 CIA-RDP91-00929R000100390033-3

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